

3A-TYPE DATA UNIT

IDENTIFICATION

1. GENERAL

1.01 This section provides identification information for 3A-type Data Units.

1.02 This section is reissued to include information on 3A2 and 3A3 Data Units. The 3A1 Data Unit is rated Manufacture Discontinued.

1.03 Installation, connections, and theory of operation for the 3A-type Data Unit is provided in sections covering data sets using this data unit.

1.04 The 3A-type Data Unit is a line control circuit used in standard DATA-PHONE® data sets. Both the 3A2 and 3A3 Data Units will operate with No. 1 Electronic Switching System (ESS) central offices and with Unigauge Lines. Data Unit 3A2 is interchangeable with, and may directly replace, the 3A1 Data Unit. The 3A3 unit replaces the 58A Data Unit but is not a direct replacement. The 3A2 and 3A3 Data Units are identical except for transformer T2.

1.05 Features provided are as follows:

- Automatic answer
- Answer-back signal and timing
- Transfer from talk to data mode
- Transfer from data to talk mode
- Automatic disconnect line at end of data transmission
- Compatibility with No. 1 ESS offices and Unigauge wire.

2. DESCRIPTION

2.01 The 3A-type Data Unit contains an answer tone frequency generator (2025 Hz), control relays, and associated circuit components. For a detailed description of the unit and its operation, refer to circuit description and schematic drawing 1D050-01.

2.02 All circuit components are arranged on printed wiring boards which are mounted on a metal framework (Fig. 1). Figure 1 also shows the arrangement of the components on the wiring boards.

2.03 The unit is designed for mounting inside an associated data set housing. It is self-contained except for the power supply, telephone set, and control keys which are furnished by the data set. The unit may be tested separately before installation and should be replaced as a unit if repair or replacement becomes necessary.

2.04 A terminal strip, equipped with screw terminals, is provided for connections to the data set.

2.05 The output level of the answer tone frequency may be adjusted to meet the requirements of each installation. The method of making this adjustment will be specified in the section covering the connections for the data set involved.

2.06 The operation of relays and use of relay contacts in the 3A-type Data Unit are determined by the associated data set and business machine.

2.07 Four limiting varistors minimize the possibility of damage to the data set from lightning or other electrical disturbances.

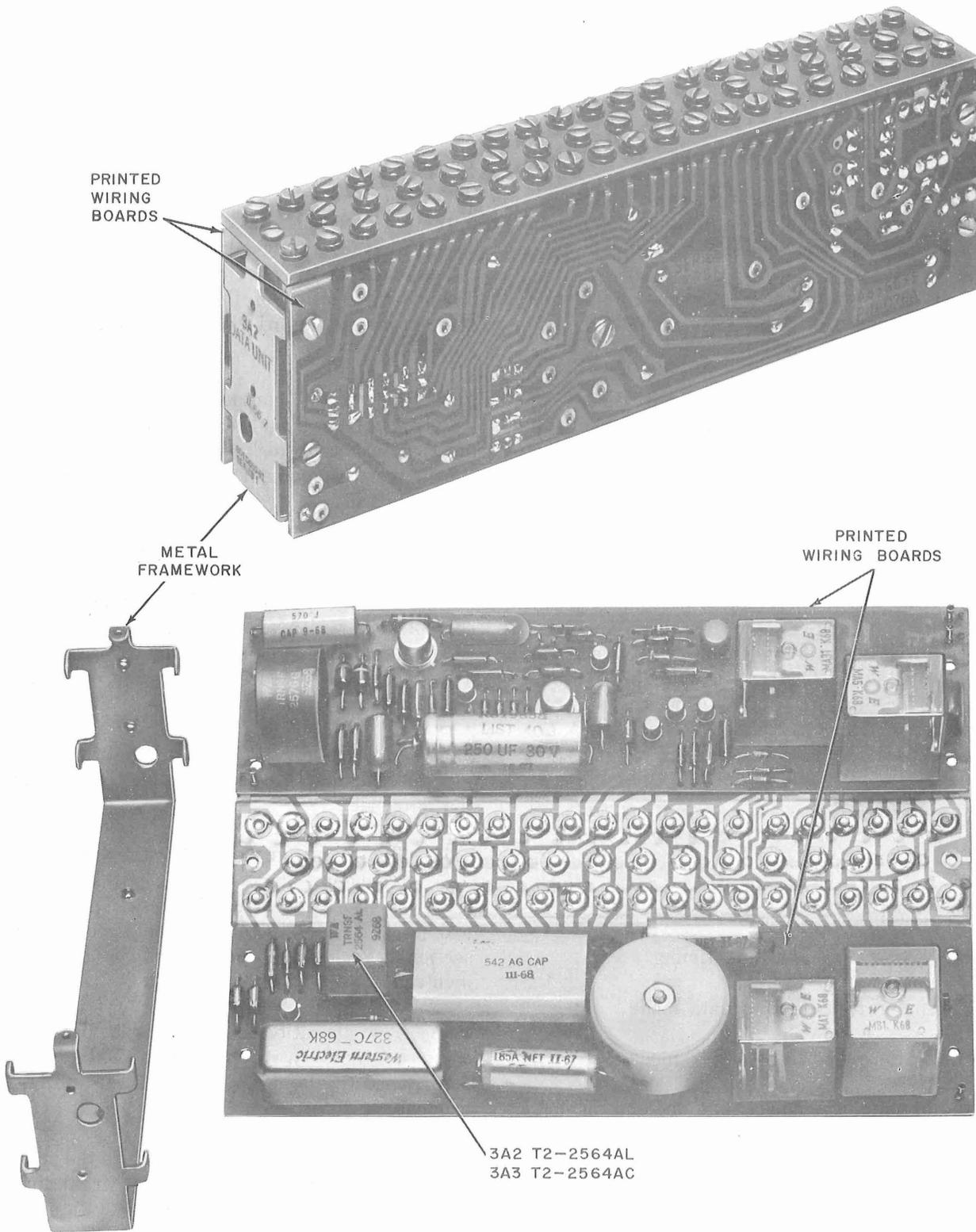


Fig. 1—3A2 and 3A3 Data Units